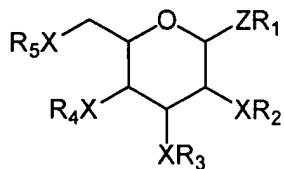


**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of inhibiting or effecting the activity of a G-Protein Coupled Receptor (GPCR) GPCR which comprises contacting a GPCR with a compound of general formula 1, or a pharmaceutically acceptable salt thereof



General Formula I

Wherein wherein the ring may be of any configuration;

$Z$  is selected from the group consisting of: sulphur, oxygen, and or  $NR^A$  wherein  $R^A$  is selected from the set defined for  $R_1$  to  $R_5$  or C1 to C15 acyl, C4 to C15 arylacyl or C4 to C15 heteroarylacyl, with the proviso that both  $R_1$  and  $R^A$  are not hydrogen,

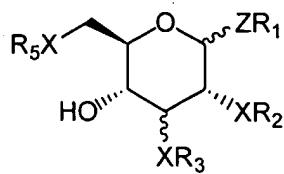
$X$  is selected from the group consisting of: oxygen and or  $NR^A$  providing that: i)  $X$  of  $XR_2$  is  $NR^A$ , ii)  $X$  of  $XR_3$  is oxygen and  $R_3$  is not hydrogen, iii)  $X$  of  $R_4$  is oxygen or  $NR^A$ , and  $X$  of  $XR_5$  is oxygen, wherein at least one of  $OR_4$  and  $OR_5$  is  $OH$  at least one  $X$  of General Formula I is  $NR^A$ ,

$R_1$  to  $R_5$  are independently selected from the group consisting of: H, C1 to C12 alkyl, C1 to C12 alkenyl, C1 to C12 alkynyl, C1 to C12 heteroalkyl, C4 to C15 aryl, C4 to C15 heteroaryl, C4 to C15 arylalkyl and or C4 to C15 heteroarylalkyl-substituent ,

wherein, when X is NR<sup>A</sup>, both R<sup>A</sup> and the corresponding R<sub>4</sub> to R<sub>5</sub> are R<sub>2</sub> or R<sub>4</sub> is not hydrogen.

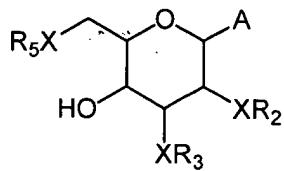
2. (Currently Amended) The method of claim 1, wherein any one of R<sup>A</sup> or R<sub>1</sub> to R<sub>5</sub> is substituted with a moiety selected from the group consisting of: OH, NO, NO<sub>2</sub>, NH<sub>2</sub>, N<sub>3</sub>, halogen, CF<sub>3</sub>, CHF<sub>2</sub>, CH<sub>2</sub>F, nitrile, alkoxy, aryloxy, amidine, guanidiniums, carboxylic acid, carboxylic acid ester, carboxylic acid amide, aryl, cycloalkyl, heteroalkyl, heteroaryl, aminoalkyl, aminodialkyl, aminotrialkyl, aminoacyl, carbonyl, substituted or unsubstituted imine, sulfate, sulfonamide, phosphate, phosphoramido, hydrazide, hydroxamate, hydroxamic acid, heteroaryloxy, aminoaryl, aminoheteroaryl, thioalkyl, thioaryl and/or thioheteroaryl.

3. (Currently Amended) The method of claim 1, wherein the compound is



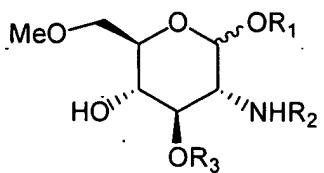
General Formula II.

4. (Currently Amended) The method of claim 1, wherein the compound is



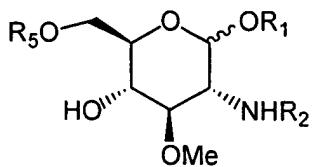
Wherein wherein A is selected from the group consisting of: N(R<sup>A</sup>)R<sub>1</sub>, SR<sub>1</sub>, or OR<sub>1</sub>.

5. (Currently Amended) The method of claim 1, wherein the compound is



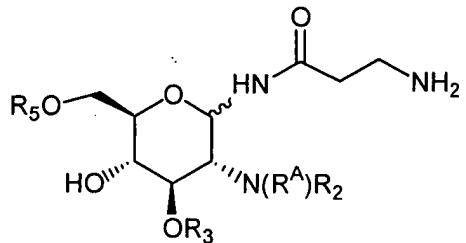
General Formula IV.

6. (Currently Amended) The method of claim 1, wherein the compound is



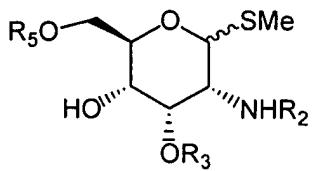
General Formula V.

7. (Currently Amended) The method of claim 1, wherein the compound is



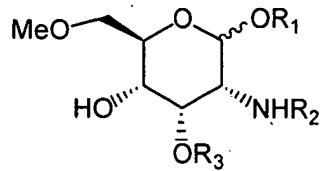
General Formula VI.

8. (Currently Amended) The method of claim 1, wherein the compound is



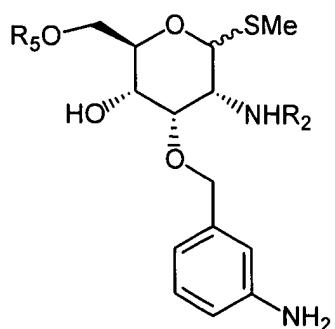
General Formula VII.

9. (Currently Amended) The method of claim 1, wherein the compound is



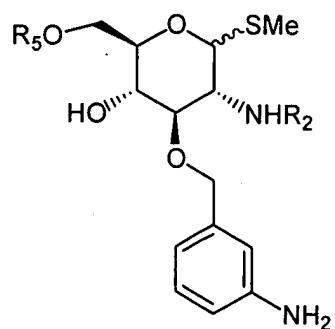
General Formula VIII.

10. (Currently Amended) The method of claim 1, wherein the compound is



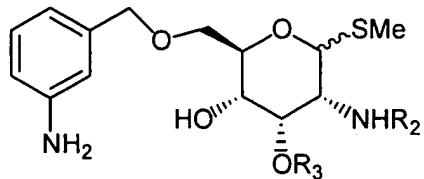
General Formula IX.

11. (Currently Amended) The method of claim 1, wherein the compound is



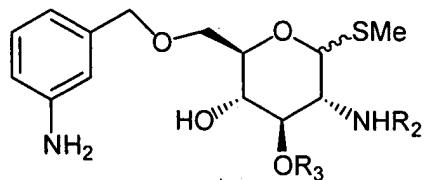
General Formula X.

12. (Currently Amended) The method of claim 1, wherein the compound is



General Formula XI.

13. (Currently Amended) The method of claim 1, wherein the compound is

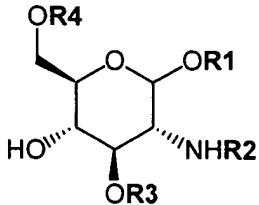


General Formula XII.

14. (Original) The method of claim 1, wherein the receptor is a somatostatin receptor.

15. (Original) The method of claim 1, wherein the receptor is a melanocortin receptor.

16. (Currently Amended) The method of claim 14, wherein the compound is

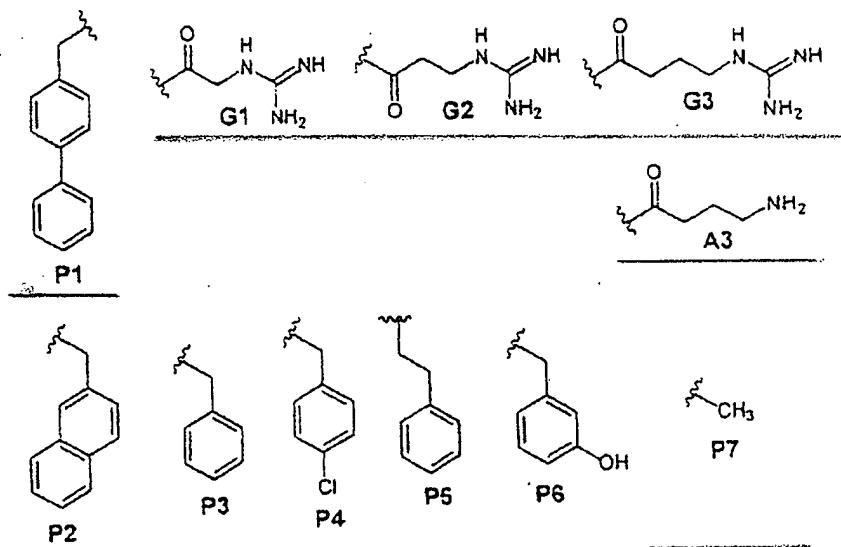


wherein R1, R2, R3 and R4 are selected from the group combinations of:

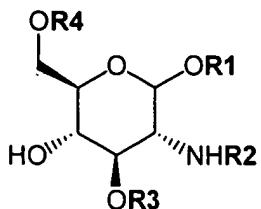
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P1 | G1 | P1 | P7 |
| P1 | G2 | P2 | P7 |
| P1 | A3 | P3 | P7 |
| P2 | A3 | P3 | P7 |
| P3 | G2 | P1 | P7 |
| P3 | A3 | P1 | P7 |
| P3 | G3 | P1 | P7 |
| P3 | A3 | P3 | P7 |
| P3 | G2 | P4 | P7 |
| P3 | A3 | P4 | P7 |
| P3 | G3 | P4 | P7 |
| P4 | G2 | P1 | P7 |
| P4 | G2 | P2 | P7 |
| P4 | G3 | P2 | P7 |
| P4 | A3 | P3 | P7 |
| P4 | G2 | P4 | P7 |
| P4 | G3 | P4 | P7 |
| P6 | G2 | P1 | P7 |
| P1 | A3 | P6 | P7 |
| P2 | A3 | P6 | P7 |
| P2 | G3 | P6 | P7 |
| P3 | A3 | P6 | P7 |
| P4 | A3 | P6 | P7 |
| P5 | A3 | P6 | P7 |
| P1 | A3 | P1 | P7 |
| P1 | G3 | P1 | P7 |
| P1 | G3 | P2 | P7 |
| P1 | G2 | P3 | P7 |
| P1 | G2 | P4 | P7 |
| P1 | A3 | P4 | P7 |
| P1 | G3 | P4 | P7 |
| P2 | G1 | P1 | P7 |
| P2 | G2 | P1 | P7 |
| P2 | A3 | P1 | P7 |
| P2 | G2 | P2 | P7 |
| P2 | A3 | P2 | P7 |
| P2 | G3 | P2 | P7 |

| P2 | G3 | P3 | P7 |
|----|----|----|----|
| P2 | A3 | P4 | P7 |
| P2 | G3 | P4 | P7 |
| P4 | A3 | P1 | P7 |
| P4 | G3 | P1 | P7 |
| P4 | A3 | P2 | P7 |
| P4 | G3 | P3 | P7 |
| P5 | A3 | P1 | P7 |
| P5 | G3 | P1 | P7 |
| P5 | A3 | P2 | P7 |
| P5 | A3 | P4 | P7 |
| P5 | G3 | P4 | P7 |
| P1 | A3 | P1 | P7 |
| P3 | A3 | P2 | P7 |
| P4 | A3 | P4 | P7 |

and wherein the groups A, P and G are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



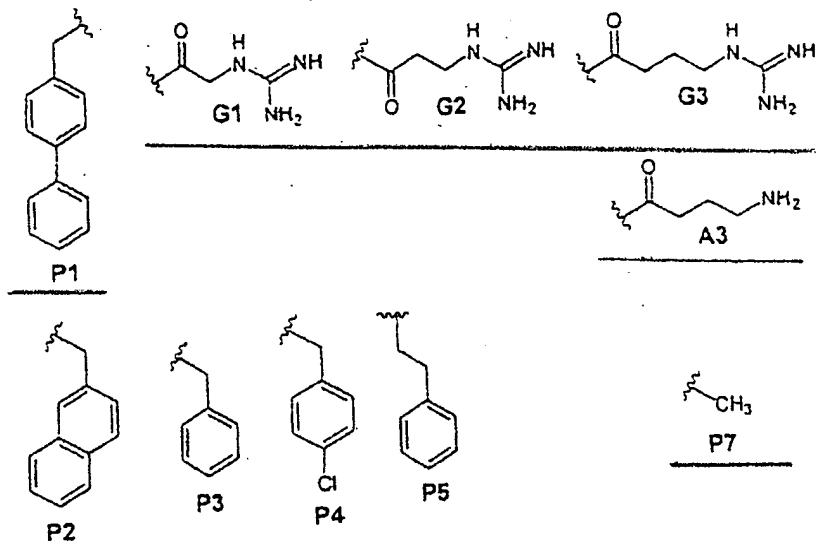
17. (Currently Amended) The method of claim 15, wherein the compound is



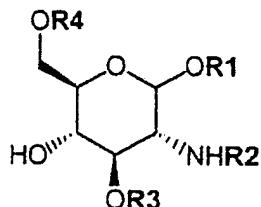
wherein R1, R2, R3 and R4 are selected from the group combinations of:

| R1 | R2 | R3 | R4 | MC4<br>inhibition at<br>10<br>micromolar |
|----|----|----|----|--|
| P1 | G1 | P1 | P7 | +  |
| P3 | G1 | P1 | P7 | +  |
| P3 | G2 | P1 | P7 | +  |
| P4 | G2 | P1 | P7 | +  |
| P4 | G2 | P2 | P7 | +  |
| P4 | G3 | P2 | P7 | +  |
| P5 | G1 | P1 | P7 | +  |
| P5 | G2 | P1 | P7 | +  |
| P1 | A3 | P1 | P7 | +  |
| P1 | G3 | P1 | P7 | +  |
| P1 | G3 | P2 | P7 | +  |
| P1 | G2 | P4 | P7 | +  |
| P1 | A3 | P4 | P7 | +  |
| P1 | G3 | P4 | P7 | +  |
| P2 | G1 | P1 | P7 | +  |
| P2 | G2 | P1 | P7 | +  |
| P2 | A3 | P1 | P7 | +  |
| P2 | G2 | P2 | P7 | +  |
| P2 | A3 | P2 | P7 | +  |
| P2 | G3 | P2 | P7 | +  |
| P2 | G3 | P4 | P7 | +  |
| P4 | G3 | P1 | P7 | +  |
| P4 | A3 | P2 | P7 | +  |
| P5 | G3 | P1 | P7 | +  |
| P1 | A3 | P1 | P7 | +  |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



18. (Currently Amended) The method of claim 15, wherein the compound is



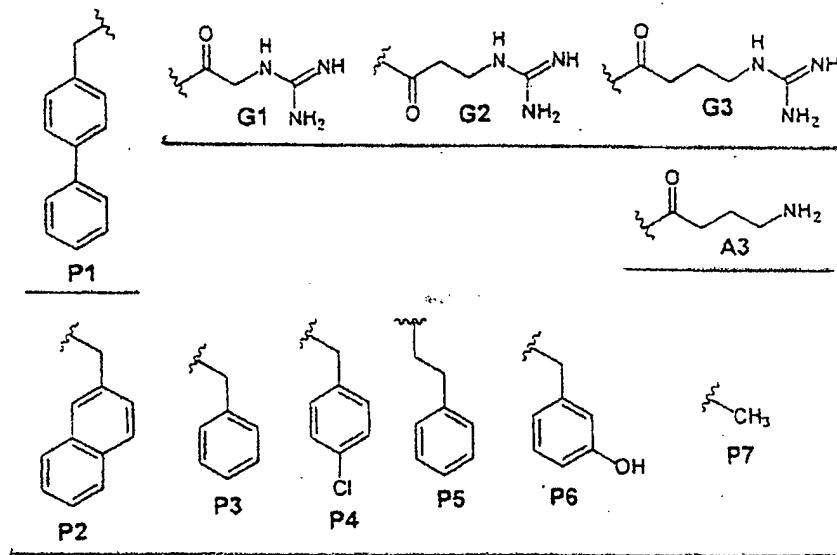
wherein R1, R2, R3 and R4 are selected from the group combinations of:

| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P1 | G1 | P7 | P1 |
| P1 | G2 | P7 | P1 |
| P1 | G3 | P7 | P1 |
| P1 | G1 | P7 | P2 |
| P1 | A3 | P7 | P2 |
| P1 | G3 | P7 | P2 |
| P1 | G1 | P7 | P4 |
| P1 | G2 | P7 | P4 |
| P1 | A3 | P7 | P4 |
| P1 | G3 | P7 | P4 |

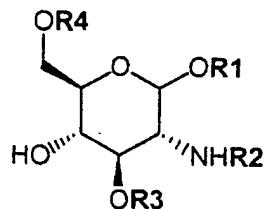
|    |    |    |    |
|----|----|----|----|
| P2 | G1 | P7 | P1 |
| P2 | G2 | P7 | P1 |
| P2 | A3 | P7 | P1 |
| P2 | G3 | P7 | P1 |
| P2 | G1 | P7 | P2 |
| P2 | G2 | P7 | P2 |
| P2 | A3 | P7 | P2 |
| P2 | G3 | P7 | P2 |
| P2 | G1 | P7 | P4 |
| P2 | G2 | P7 | P4 |
| P2 | A3 | P7 | P4 |
| P2 | G3 | P7 | P4 |
| P3 | G3 | P7 | P1 |
| P3 | G1 | P7 | P2 |
| P3 | G3 | P7 | P4 |
| P4 | G1 | P7 | P1 |
| P4 | G2 | P7 | P1 |
| P4 | G3 | P7 | P1 |
| P4 | G1 | P7 | P2 |
| P4 | G2 | P7 | P2 |
| P4 | A3 | P7 | P2 |
| P4 | G3 | P7 | P2 |
| P4 | G1 | P7 | P4 |
| P4 | G2 | P7 | P4 |
| P4 | A3 | P7 | P4 |
| P4 | G3 | P7 | P4 |
| P5 | G1 | P7 | P1 |
| P5 | G2 | P7 | P1 |
| P5 | A3 | P7 | P1 |
| P5 | G3 | P7 | P1 |
| P5 | G1 | P7 | P2 |
| P5 | G2 | P7 | P2 |
| P5 | A3 | P7 | P2 |
| P5 | G3 | P7 | P2 |
| P5 | G1 | P7 | P4 |
| P5 | G2 | P7 | P4 |
| P5 | A3 | P7 | P4 |
| P5 | G3 | P7 | P4 |
| P1 | G1 | P7 | P6 |
| P4 | G2 | P7 | P6 |
| P6 | G1 | P7 | P1 |
| P6 | G2 | P7 | P1 |

|    |    |    |    |
|----|----|----|----|
| P6 | A3 | P7 | P1 |
| P6 | G3 | P7 | P2 |
| P6 | G2 | P7 | P2 |
| P6 | G3 | P7 | P2 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



19. (Currently Amended) The method of claim 14, wherein the compound is

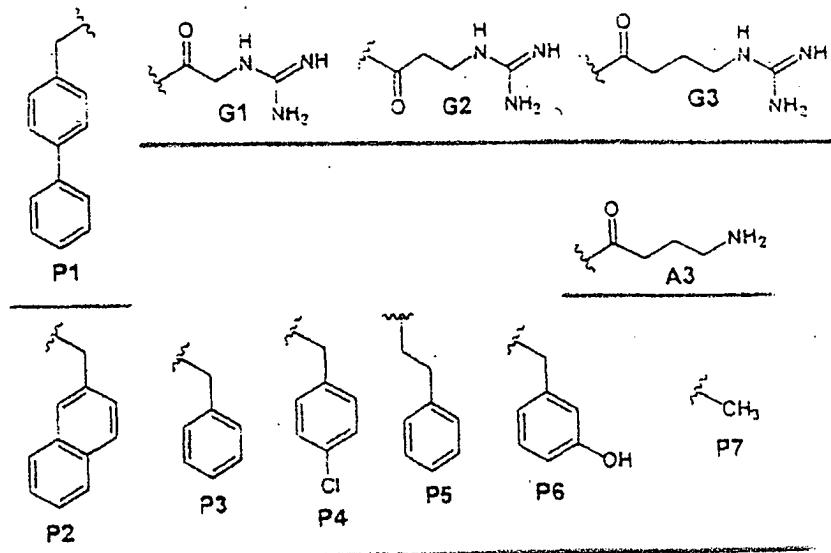


wherein R1, R2, R3 and R4 are selected from the group combinations of:

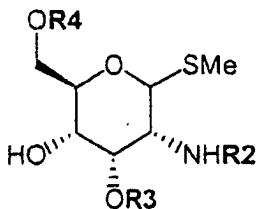
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P1 | G1 | P7 | P1 |
| P1 | G2 | P7 | P1 |

| P1 | G2 | P7 | P2 |
|----|----|----|----|
| P1 | A3 | P7 | P2 |
| P2 | A3 | P7 | P1 |
| P2 | A3 | P7 | P2 |
| P2 | A3 | P7 | P4 |
| P3 | G1 | P7 | P2 |
| P3 | A3 | P7 | P4 |
| P4 | G2 | P7 | P1 |
| P4 | A3 | P7 | P1 |
| P4 | G3 | P7 | P1 |
| P4 | G1 | P7 | P2 |
| P4 | G2 | P7 | P2 |
| P4 | A3 | P7 | P2 |
| P4 | G3 | P7 | P2 |
| P4 | A3 | P7 | P3 |
| P4 | A3 | P7 | P4 |
| P5 | A3 | P7 | P1 |
| P5 | A3 | P7 | P2 |
| P5 | G3 | P7 | P2 |
| P5 | A3 | P7 | P4 |
| P2 | A3 | P7 | P6 |
| P4 | A3 | P7 | P6 |
| P6 | A3 | P7 | P4 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



20. (Currently Amended) The method of claim 15, wherein the compound is



wherein

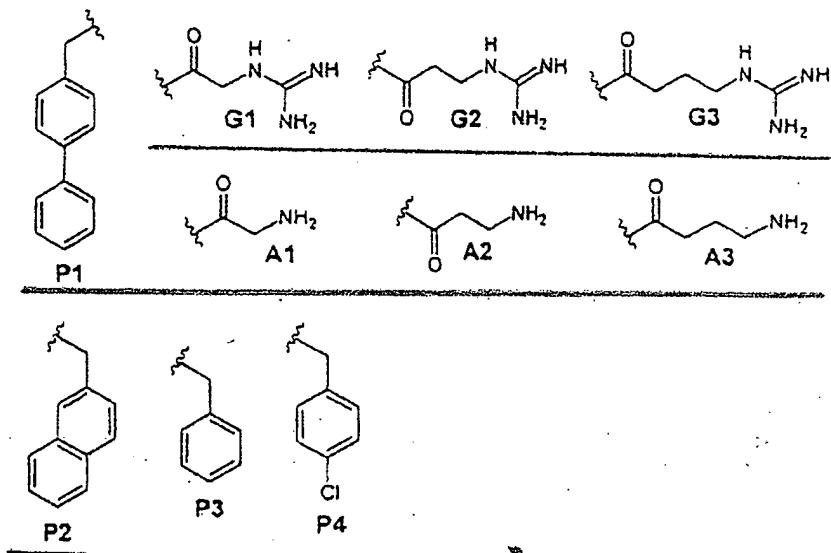
R<sub>4</sub>, R<sub>2</sub> and R<sub>3</sub> are selected from the group combinations of:

| R <sub>2</sub> | R <sub>3</sub> | R <sub>4</sub> |
|----------------|----------------|----------------|
| G1             | P3             | P3             |
| A2             | P3             | P3             |
| G2             | P3             | P3             |
| G3             | P3             | P3             |
| G1             | P3             | P4             |
| G2             | P3             | P4             |
| A3             | P3             | P4             |

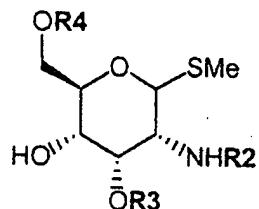
| G3 | P3 | P4 |
|----|----|----|
| G1 | P3 | P1 |
| A2 | P3 | P1 |
| G2 | P3 | P1 |
| A3 | P3 | P1 |
| G3 | P3 | P1 |
| A1 | P3 | P2 |
| G1 | P3 | P2 |
| A2 | P3 | P2 |
| G2 | P3 | P2 |
| A3 | P3 | P2 |
| G3 | P3 | P2 |
| G1 | P4 | P3 |
| A2 | P4 | P3 |
| G2 | P4 | P3 |
| G3 | P4 | P3 |
| G1 | P4 | P4 |
| A2 | P4 | P4 |
| G2 | P4 | P4 |
| G3 | P4 | P4 |
| A1 | P4 | P1 |
| G1 | P4 | P1 |
| A2 | P4 | P1 |
| G2 | P4 | P1 |
| A3 | P4 | P1 |
| G3 | P4 | P1 |
| A1 | P4 | P2 |
| G1 | P4 | P2 |
| A2 | P4 | P2 |
| G2 | P4 | P2 |
| A3 | P4 | P2 |
| G3 | P4 | P2 |
| A1 | P1 | P3 |
| G1 | P1 | P3 |
| A2 | P1 | P3 |
| G2 | P1 | P3 |
| A3 | P1 | P3 |
| G3 | P1 | P3 |
| A1 | P1 | P4 |
| G1 | P1 | P4 |
| A2 | P1 | P4 |
| G2 | P1 | P4 |

|    |    |    |
|----|----|----|
| A3 | P1 | P4 |
| G3 | P1 | P4 |
| A1 | P1 | P1 |
| G1 | P1 | P1 |
| A2 | P1 | P1 |
| G2 | P1 | P1 |
| A3 | P1 | P1 |
| A1 | P1 | P2 |
| G1 | P1 | P2 |
| A2 | P1 | P2 |
| G2 | P1 | P2 |
| A3 | P1 | P2 |
| G3 | P1 | P2 |
| A1 | P2 | P3 |
| G1 | P2 | P3 |
| G2 | P2 | P3 |
| A3 | P2 | P3 |
| G3 | P2 | P3 |
| A1 | P2 | P4 |
| G1 | P2 | P4 |
| A2 | P2 | P4 |
| G2 | P2 | P4 |
| A3 | P2 | P4 |
| G3 | P2 | P4 |
| A1 | P2 | P1 |
| G1 | P2 | P1 |
| A2 | P2 | P1 |
| G2 | P2 | P1 |
| A3 | P2 | P1 |
| G3 | P2 | P1 |
| A1 | P2 | P2 |
| G1 | P2 | P2 |
| A2 | P2 | P2 |
| G2 | P2 | P2 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



21 (Currently Amended) The method of claim 14, wherein the compound is



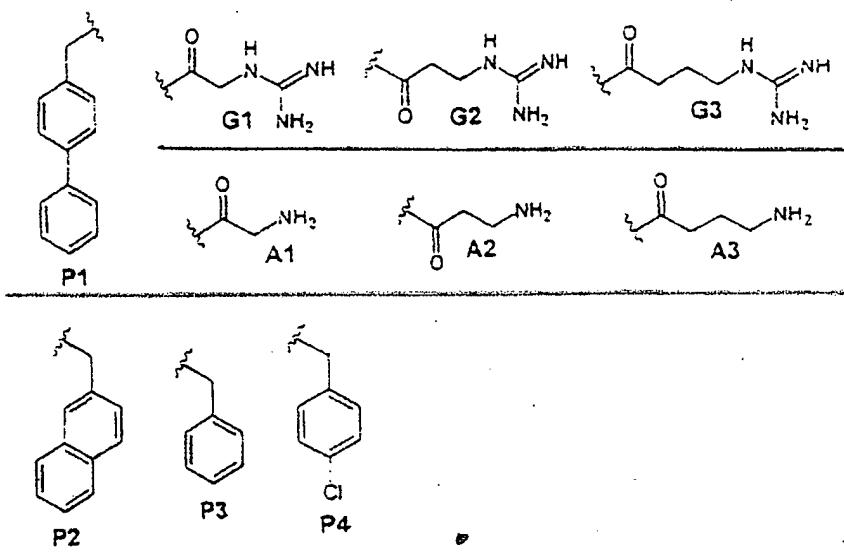
wherein R4, R2 and R3 are selected from the group combinations of:

| R2 | R3 | R4 |
|----|----|----|
| A1 | P3 | P3 |
| G1 | P3 | P3 |
| A2 | P3 | P3 |
| G2 | P3 | P3 |
| A3 | P3 | P3 |
| G3 | P3 | P3 |
| A1 | P3 | P4 |
| G1 | P3 | P4 |
| A2 | P3 | P4 |
| G2 | P3 | P4 |

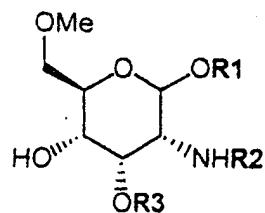
|    |    |    |
|----|----|----|
| A3 | P3 | P4 |
| G3 | P3 | P4 |
| A1 | P3 | P1 |
| G1 | P3 | P1 |
| A2 | P3 | P1 |
| G2 | P3 | P1 |
| A3 | P3 | P1 |
| G3 | P3 | P1 |
| A1 | P3 | P2 |
| G1 | P3 | P2 |
| A2 | P3 | P2 |
| G2 | P3 | P2 |
| A3 | P3 | P2 |
| G3 | P3 | P2 |
| A1 | P4 | P3 |
| G1 | P4 | P3 |
| A2 | P4 | P3 |
| G2 | P4 | P3 |
| A3 | P4 | P3 |
| G3 | P4 | P3 |
| A1 | P4 | P4 |
| G1 | P4 | P4 |
| A2 | P4 | P4 |
| G2 | P4 | P4 |
| A3 | P4 | P4 |
| G3 | P4 | P4 |
| A1 | P4 | P1 |
| G1 | P4 | P1 |
| A2 | P4 | P1 |
| G2 | P4 | P1 |
| A3 | P4 | P1 |
| G3 | P4 | P1 |
| A1 | P4 | P2 |
| G1 | P4 | P2 |
| A2 | P4 | P2 |
| G2 | P4 | P2 |
| A3 | P4 | P2 |
| G3 | P4 | P2 |
| A1 | P1 | P3 |
| G1 | P1 | P3 |
| A2 | P1 | P3 |
| G2 | P1 | P3 |

|    |    |    |
|----|----|----|
| A3 | P1 | P3 |
| G3 | P1 | P3 |
| A1 | P1 | P4 |
| G1 | P1 | P4 |
| A2 | P1 | P4 |
| G2 | P1 | P4 |
| A3 | P1 | P4 |
| G3 | P1 | P4 |
| A1 | P1 | P1 |
| G1 | P1 | P1 |
| A2 | P1 | P1 |
| G2 | P1 | P1 |
| A3 | P1 | P1 |
| G3 | P1 | P1 |
| A1 | P1 | P2 |
| G1 | P1 | P2 |
| A2 | P1 | P2 |
| G2 | P1 | P2 |
| A3 | P1 | P2 |
| G3 | P1 | P2 |
| A1 | P2 | P3 |
| G1 | P2 | P3 |
| A2 | P2 | P3 |
| G2 | P2 | P3 |
| A3 | P2 | P3 |
| G3 | P2 | P3 |
| A1 | P2 | P4 |
| G1 | P2 | P4 |
| A2 | P2 | P4 |
| G2 | P2 | P4 |
| A3 | P2 | P4 |
| G3 | P2 | P4 |
| A1 | P2 | P1 |
| G1 | P2 | P1 |
| A2 | P2 | P1 |
| G2 | P2 | P1 |
| A3 | P2 | P1 |
| G3 | P2 | P1 |
| A1 | P2 | P2 |
| G1 | P2 | P2 |
| A2 | P2 | P2 |
| G2 | P2 | P2 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



22. (Currently Amended) The method of claim 15, wherein the compound is



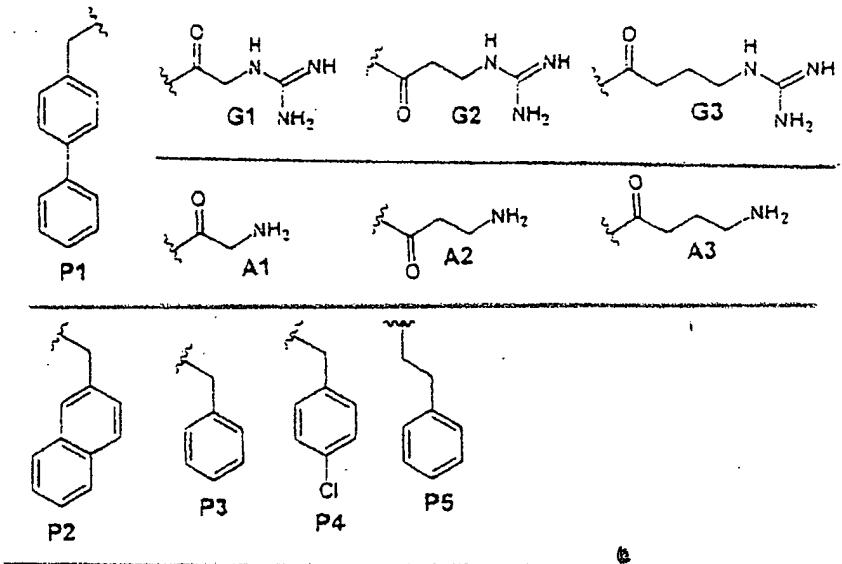
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| P3 | G1 | P3 |

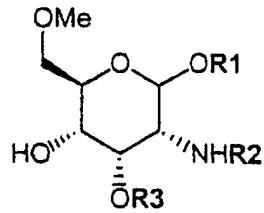
|    |    |    |
|----|----|----|
| P3 | G2 | P3 |
| P3 | G3 | P3 |
| P3 | A1 | P4 |
| P3 | G1 | P4 |
| P3 | A2 | P4 |
| P3 | G2 | P4 |
| P3 | A3 | P4 |
| P3 | G3 | P4 |
| P3 | A1 | P1 |
| P3 | G1 | P1 |
| P3 | A2 | P1 |
| P3 | G2 | P1 |
| P3 | A3 | P1 |
| P3 | G3 | P1 |
| P3 | G1 | P2 |
| P3 | A2 | P2 |
| P3 | G2 | P2 |
| P3 | A3 | P2 |
| P3 | G3 | P2 |
| P4 | G1 | P3 |
| P4 | G2 | P3 |
| P4 | G3 | P3 |
| P4 | A1 | P4 |
| P4 | G1 | P4 |
| P4 | A2 | P4 |
| P4 | G2 | P4 |
| P4 | A3 | P4 |
| P4 | G3 | P4 |
| P4 | A1 | P1 |
| P4 | G1 | P1 |
| P4 | A2 | P1 |
| P4 | G2 | P1 |
| P4 | A3 | P1 |
| P4 | G3 | P1 |
| P4 | A1 | P2 |
| P4 | G1 | P2 |
| P4 | A2 | P2 |
| P4 | G2 | P2 |
| P4 | A3 | P2 |
| P4 | G3 | P2 |
| P5 | G1 | P3 |
| P5 | G2 | P3 |

|    |    |    |
|----|----|----|
| P5 | G3 | P3 |
| P5 | G1 | P4 |
| P5 | A2 | P4 |
| P5 | G2 | P4 |
| P5 | A3 | P4 |
| P5 | G3 | P4 |
| P5 | A1 | P1 |
| P5 | G1 | P1 |
| P5 | A2 | P1 |
| P5 | G2 | P1 |
| P5 | A3 | P1 |
| P5 | G3 | P1 |
| P5 | A1 | P2 |
| P5 | G1 | P2 |
| P5 | A2 | P2 |
| P5 | G2 | P2 |
| P5 | A3 | P2 |
| P5 | G3 | P2 |
| P2 | G1 | P3 |
| P2 | A2 | P3 |
| P2 | G2 | P3 |
| P2 | G1 | P4 |
| P2 | G2 | P4 |
| P2 | A3 | P4 |
| P2 | G3 | P4 |
| P2 | G1 | P1 |
| P2 | A2 | P1 |
| P2 | G2 | P1 |
| P2 | A3 | P1 |
| P2 | G3 | P1 |
| P2 | A1 | P2 |
| P2 | G1 | P2 |
| P2 | G2 | P2 |
| P2 | G3 | P2 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



23. (Currently Amended) The method of claim 14, wherein the compound is



wherein R1, R2 and R3 are selected from the group combinations of:

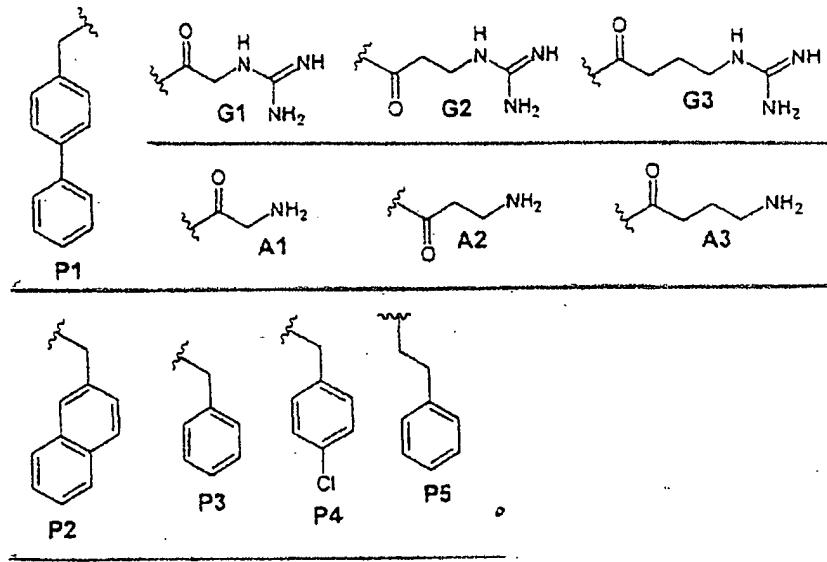
| R1 | R2 | R3 |
|----|----|----|
| P3 | A1 | P3 |
| P3 | G1 | P3 |
| P3 | A2 | P3 |
| P3 | G2 | P3 |
| P3 | A3 | P3 |

|    |    |    |
|----|----|----|
| P3 | G3 | P3 |
| P3 | A1 | P4 |
| P3 | G1 | P4 |
| P3 | A2 | P4 |
| P3 | G2 | P4 |
| P3 | A3 | P4 |
| P3 | G3 | P4 |
| P3 | A1 | P1 |
| P3 | G1 | P1 |
| P3 | A2 | P1 |
| P3 | G2 | P1 |
| P3 | A3 | P1 |
| P3 | G3 | P1 |
| P3 | A1 | P2 |
| P3 | G1 | P2 |
| P3 | A2 | P2 |
| P3 | G2 | P2 |
| P3 | A3 | P2 |
| P3 | G3 | P2 |
| P4 | G1 | P3 |
| P4 | A2 | P3 |
| P4 | G2 | P3 |
| P4 | A3 | P3 |
| P4 | G3 | P3 |
| P4 | A1 | P4 |
| P4 | G1 | P4 |
| P4 | A2 | P4 |
| P4 | G2 | P4 |
| P4 | A3 | P4 |
| P4 | G3 | P4 |
| P4 | A1 | P1 |
| P4 | G1 | P1 |
| P4 | A2 | P1 |
| P4 | G2 | P1 |
| P4 | A3 | P1 |
| P4 | G3 | P1 |
| P4 | A1 | P2 |
| P4 | G1 | P2 |
| P4 | A2 | P2 |
| P4 | G2 | P2 |
| P4 | A3 | P2 |
| P4 | G3 | P2 |

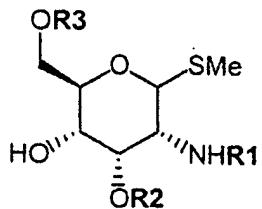
|    |    |    |
|----|----|----|
| P5 | A1 | P3 |
| P5 | A2 | P3 |
| P5 | G2 | P3 |
| P5 | A3 | P3 |
| P5 | G3 | P3 |
| P5 | A1 | P4 |
| P5 | G1 | P4 |
| P5 | A2 | P4 |
| P5 | G2 | P4 |
| P5 | A3 | P4 |
| P5 | G3 | P4 |
| P5 | A1 | P1 |
| P5 | G1 | P1 |
| P5 | A2 | P1 |
| P5 | G2 | P1 |
| P5 | A3 | P1 |
| P5 | G3 | P1 |
| P5 | A1 | P2 |
| P5 | G1 | P2 |
| P5 | A2 | P2 |
| P5 | G2 | P2 |
| P5 | A3 | P2 |
| P5 | G3 | P2 |
| P2 | A1 | P3 |
| P2 | G1 | P3 |
| P2 | A2 | P3 |
| P2 | G2 | P3 |
| P2 | A3 | P3 |
| P2 | G3 | P3 |
| P2 | A1 | P4 |
| P2 | G1 | P4 |
| P2 | A2 | P4 |
| P2 | G2 | P4 |
| P2 | A3 | P4 |
| P2 | G3 | P4 |
| P2 | A1 | P1 |
| P2 | G1 | P1 |
| P2 | A2 | P1 |
| P2 | G2 | P1 |
| P2 | A3 | P1 |
| P2 | G3 | P1 |
| P2 | A1 | P2 |

|    |    |    |
|----|----|----|
| P2 | G1 | P2 |
| P2 | A2 | P2 |
| P2 | G2 | P2 |
| P2 | A3 | P2 |
| P2 | G3 | P2 |

and wherein the groups P, G and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



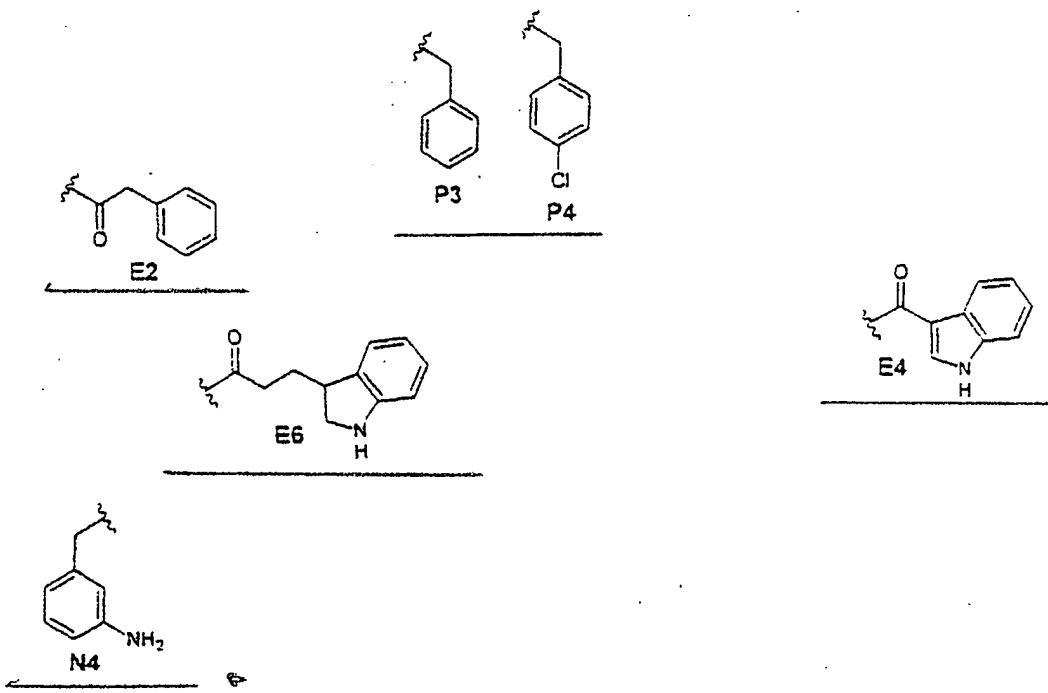
24. (Currently Amended) The method of claim 15, wherein the compound is



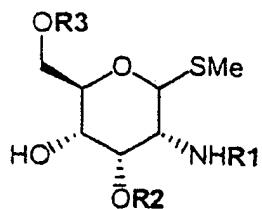
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| P3 | N4 | E2 |
| P3 | N4 | E4 |
| P3 | N4 | E6 |
| P4 | N4 | E2 |
| P4 | N4 | E4 |

and wherein the groups P, N and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



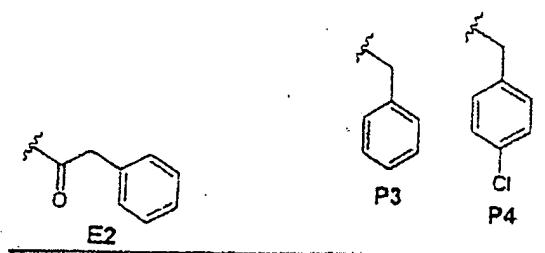
25. (Currently Amended) The method of claim 14, wherein the compound is



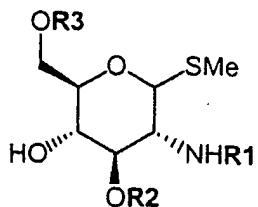
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| P3 | N4 | E5 |
| P3 | N4 | E6 |
| P4 | N4 | E1 |
| P4 | N4 | E2 |
| P4 | N4 | E5 |

and wherein the groups P, N and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



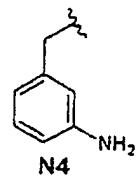
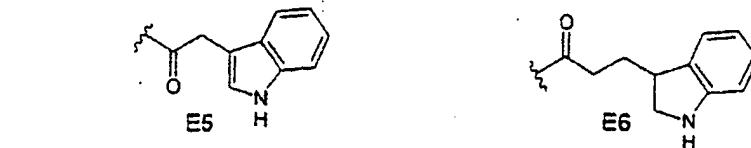
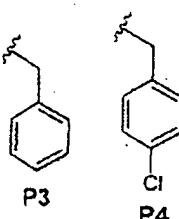
26. (Currently Amended) The method of claim 15, wherein the compound is



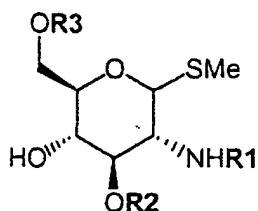
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E2 | N4 | P3 |
| E4 | N4 | P3 |
| E6 | N4 | P3 |
| E4 | N4 | P4 |
| E5 | N4 | P4 |
| E6 | N4 | P4 |

and wherein the groups P, N and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



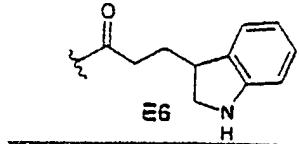
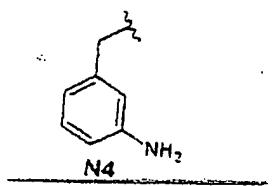
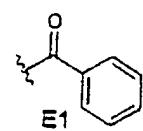
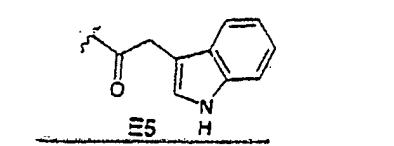
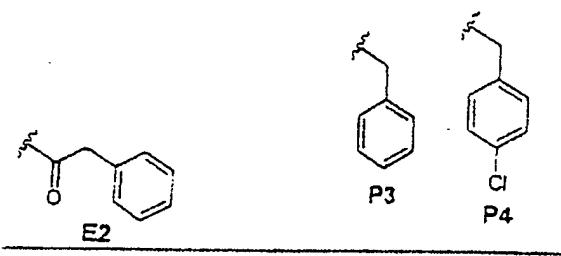
27. (Currently Amended) The method of claim 14, wherein the compound is



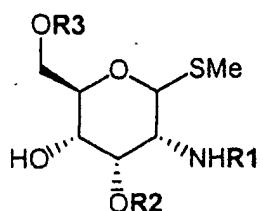
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E1 | N4 | P3 |
| E5 | N4 | P3 |
| E6 | N4 | P3 |
| E1 | N4 | P4 |
| E2 | N4 | P4 |
| E5 | N4 | P4 |

and wherein the groups P, N and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



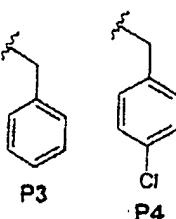
28. (Currently Amended) The method of claim 15, wherein the compound is



wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E2 | P3 | N4 |
| E4 | P3 | N4 |
| E6 | P3 | N4 |
| E1 | P4 | N4 |
| E6 | P4 | N4 |

and wherein the groups E, P and N are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



P3

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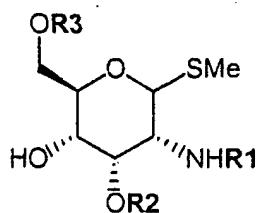
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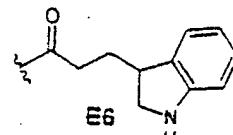
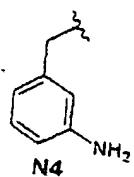
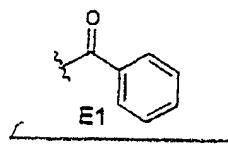
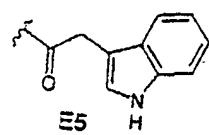
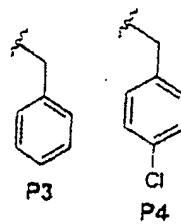
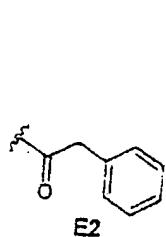
—



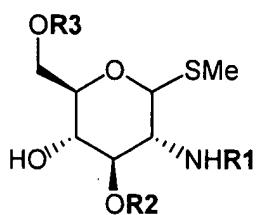
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E1 | P3 | N4 |
| E2 | P3 | N4 |
| E5 | P3 | N4 |
| E6 | P3 | N4 |
| E1 | P4 | N4 |

and wherein the groups E, P and N are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



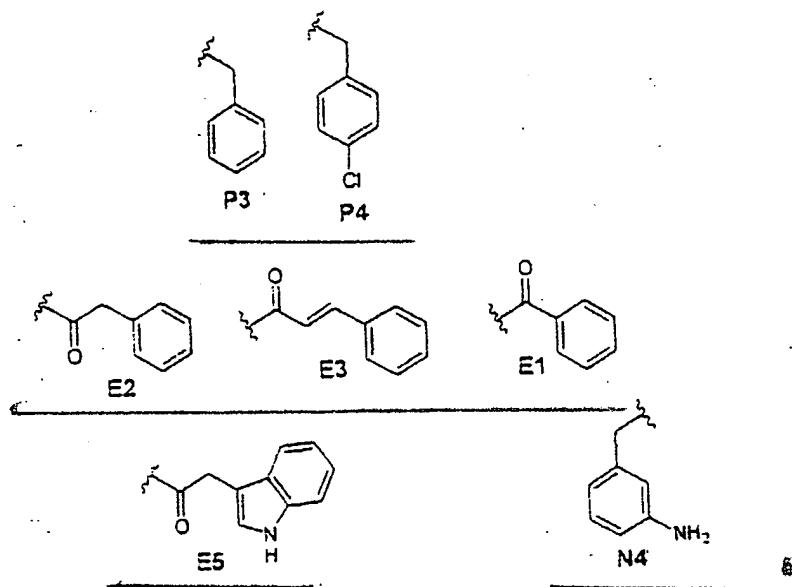
30. (Currently Amended) The method of claim 15, wherein the compound is



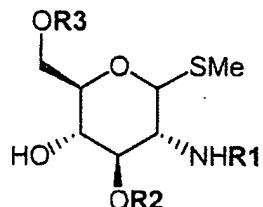
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E1 | P3 | N4 |
| E2 | P3 | N4 |
| E3 | P3 | N4 |
| E5 | P3 | N4 |
| E1 | P4 | N4 |
| E2 | P4 | N4 |
| E3 | P4 | N4 |
| E5 | P4 | N4 |

and wherein the groups E, P and N are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



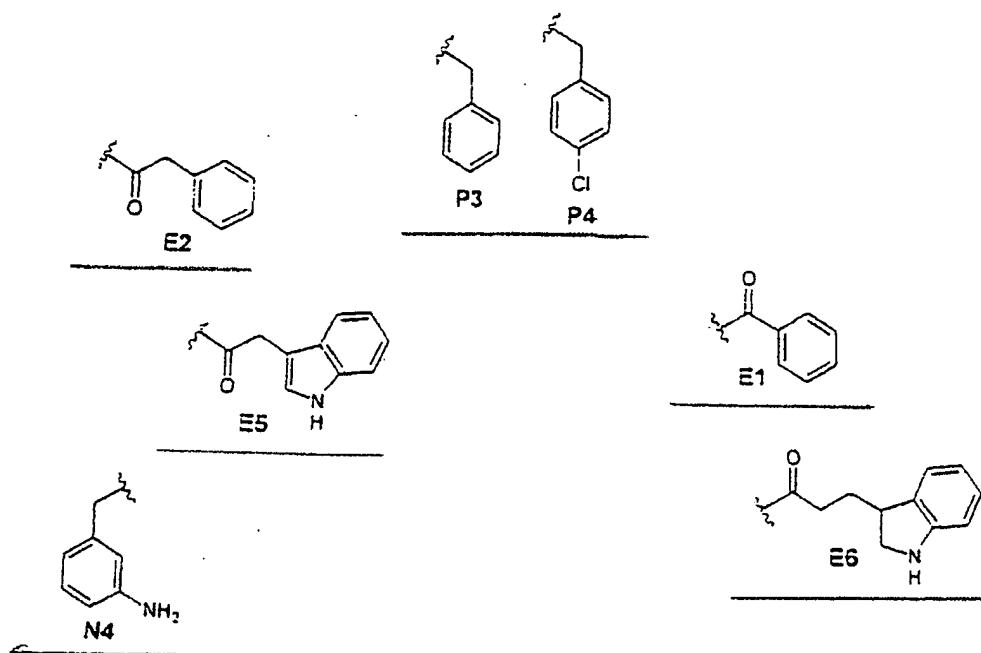
31. (Currently Amended) The method of claim 14, wherein the compound is



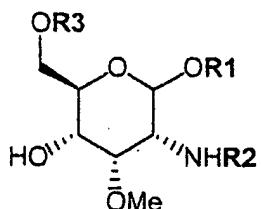
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3 |
|----|----|----|
| E5 | P3 | N4 |
| E6 | P3 | N4 |
| E1 | P4 | N4 |
| E2 | P4 | N4 |
| E5 | P4 | N4 |

and wherein the groups E, P and N are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



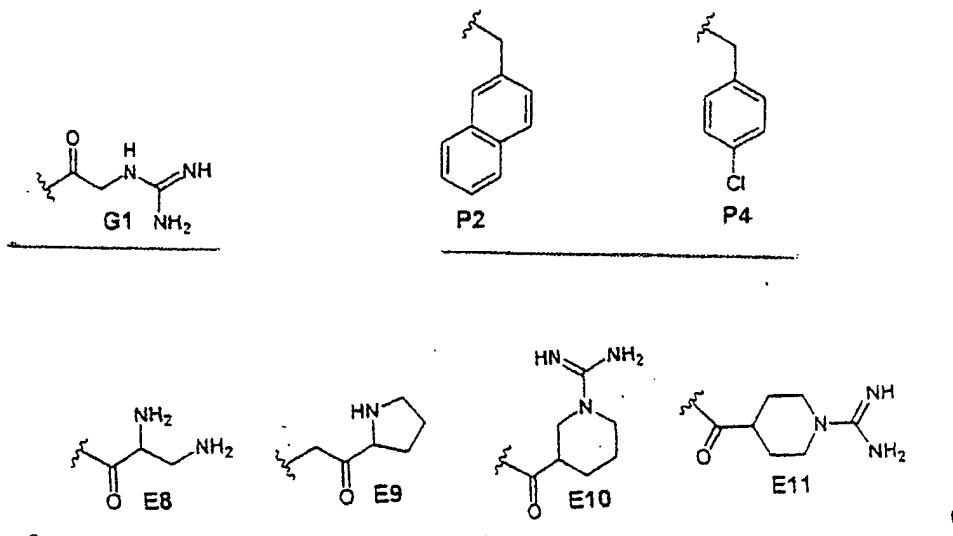
32. (Currently Amended) The method of claim 15, wherein the compound is



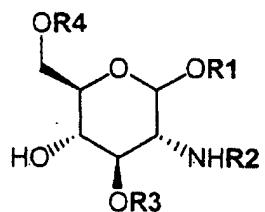
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2  | R3 |
|----|-----|----|
| P4 | E8  | P2 |
| P4 | E9  | P2 |
| P4 | E10 | P2 |
| P4 | G1  | P2 |
| P4 | E8  | P2 |
| P4 | E9  | P2 |
| P4 | E11 | P2 |
| P4 | G1  | P2 |

and wherein the groups P, G and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



33. (Currently Amended) The method of claim 15, wherein the compound is

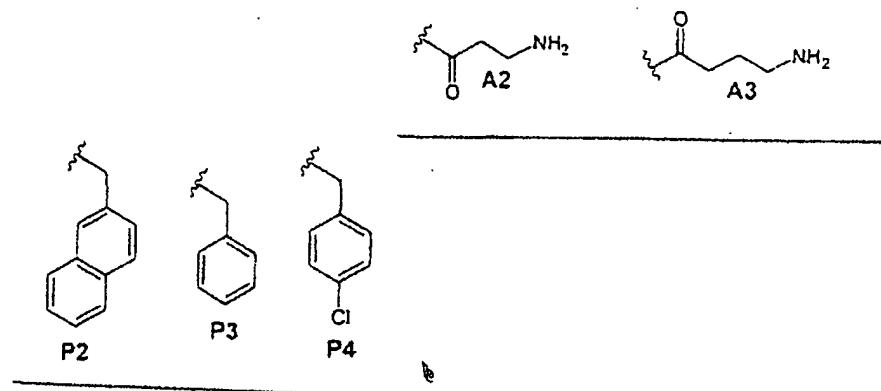


wherein R1, R2, R3 and R4 are selected from the group combinations of:

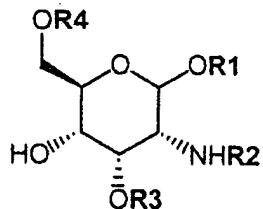
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P2 | A2 | P4 | P2 |
| P2 | A2 | P4 | P2 |
| P2 | A2 | P4 | P3 |
| P2 | A2 | P4 | P3 |
| P2 | A2 | P4 | P4 |
| P2 | A2 | P4 | P4 |
| P2 | A2 | P2 | P2 |

|    |    |    |    |
|----|----|----|----|
| P2 | A2 | P2 | P2 |
| P2 | A2 | P2 | P3 |
| P2 | A2 | P2 | P4 |
| P2 | A2 | P2 | P4 |
| P2 | A2 | P3 | P2 |
| P2 | A2 | P3 | P3 |
| P2 | A2 | P3 | P3 |
| P2 | A2 | P3 | P4 |
| P2 | A3 | P4 | P2 |
| P2 | A3 | P4 | P2 |
| P2 | A3 | P4 | P4 |
| P2 | A3 | P2 | P2 |
| P2 | A3 | P2 | P4 |
| P2 | A3 | P3 | P2 |
| P2 | A3 | P3 | P3 |
| P2 | A3 | P3 | P4 |
| P4 | A2 | P4 | P3 |
| P4 | A2 | P4 | P4 |
| P4 | A2 | P2 | P2 |
| P4 | A2 | P2 | P3 |
| P4 | A2 | P2 | P3 |
| P4 | A2 | P2 | P4 |
| P4 | A2 | P3 | P2 |
| P4 | A2 | P3 | P3 |
| P4 | A2 | P3 | P4 |
| P4 | A3 | P4 | P2 |
| P4 | A3 | P4 | P3 |
| P4 | A3 | P4 | P4 |
| P4 | A3 | P2 | P2 |
| P4 | A3 | P2 | P3 |
| P4 | A3 | P2 | P3 |
| P4 | A3 | P2 | P4 |
| P4 | A3 | P2 | P4 |
| P4 | A3 | P3 | P2 |
| P4 | A3 | P3 | P4 |

and wherein the groups P, and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



34. (Currently Amended) The method of claim 15, wherein the compound is

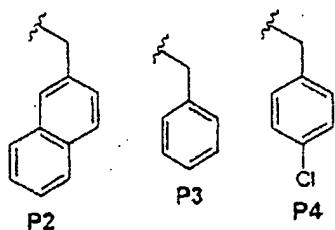
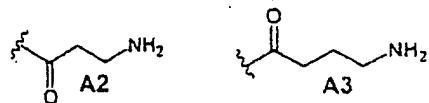


wherein R1, R2, R3 and R4 are selected from the group combinations of:

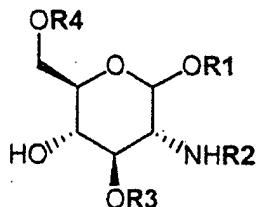
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P3 | A2 | P4 | P2 |
| P3 | A2 | P4 | P3 |
| P3 | A2 | P4 | P4 |
| P3 | A2 | P2 | P2 |
| P3 | A2 | P2 | P3 |
| P3 | A2 | P2 | P4 |
| P3 | A2 | P3 | P2 |

|    |    |    |    |
|----|----|----|----|
| P3 | A2 | P3 | P3 |
| P3 | A2 | P3 | P4 |
| P3 | A3 | P4 | P2 |
| P3 | A3 | P4 | P4 |
| P3 | A3 | P2 | P2 |
| P3 | A3 | P2 | P3 |
| P3 | A3 | P2 | P4 |
| P3 | A3 | P3 | P2 |
| P3 | A3 | P3 | P4 |
| P2 | A2 | P4 | P2 |
| P2 | A2 | P4 | P3 |
| P2 | A2 | P4 | P4 |
| P2 | A2 | P3 | P2 |
| P2 | A2 | P3 | P3 |
| P2 | A2 | P2 | P4 |
| P2 | A2 | P3 | P2 |
| P2 | A2 | P3 | P4 |
| P2 | A3 | P4 | P2 |
| P2 | A3 | P4 | P3 |
| P2 | A3 | P4 | P4 |
| P2 | A3 | P2 | P2 |
| P2 | A3 | P2 | P3 |
| P2 | A3 | P2 | P4 |
| P2 | A3 | P3 | P2 |
| P2 | A3 | P3 | P3 |
| P2 | A3 | P3 | P4 |

and wherein the groups P, and A are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



35. (Currently Amended) The method of claim 15, wherein the compound is

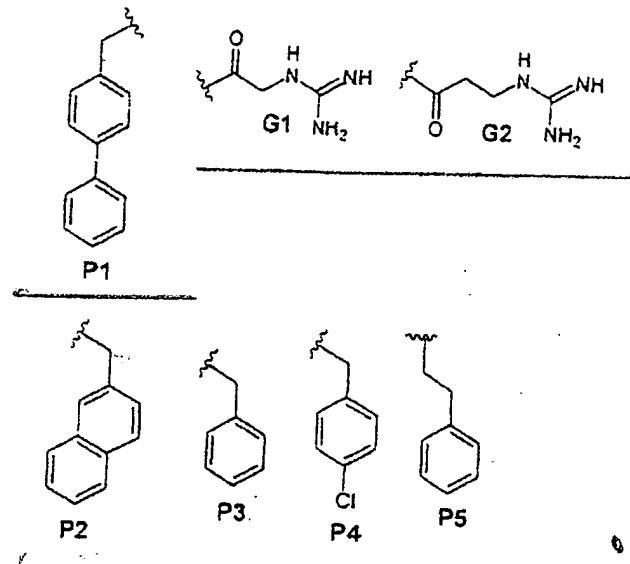


wherein R1, R2, R3 and R4 are selected from the group combinations of:

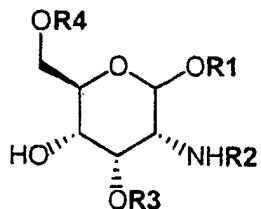
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P3 | G1 | P4 | P2 |
| P3 | G1 | P4 | P2 |
| P3 | G1 | P4 | P3 |
| P3 | G1 | P4 | P3 |
| P3 | G1 | P4 | P4 |
| P3 | G1 | P2 | P2 |
| P3 | G1 | P2 | P2 |
| P3 | G1 | P2 | P3 |
| P3 | G1 | P2 | P4 |
| P3 | G1 | P2 | P4 |

|    |    |    |    |
|----|----|----|----|
| P3 | G1 | P1 | P2 |
| P3 | G1 | P1 | P3 |
| P3 | G1 | P1 | P3 |
| P3 | G1 | P1 | P4 |
| P3 | G1 | P1 | P4 |
| P3 | G2 | P4 | P2 |
| P3 | G2 | P4 | P2 |
| P3 | G2 | P4 | P3 |
| P3 | G2 | P4 | P3 |
| P3 | G2 | P4 | P4 |
| P3 | G2 | P4 | P4 |
| P3 | G2 | P2 | P2 |
| P3 | G2 | P2 | P3 |
| P3 | G2 | P2 | P3 |
| P3 | G2 | P2 | P4 |
| P3 | G2 | P2 | P4 |
| P3 | G2 | P1 | P2 |
| P3 | G2 | P1 | P2 |
| P3 | G2 | P1 | P3 |
| P3 | G2 | P1 | P4 |
| P3 | G2 | P1 | P4 |
| P3 | G2 | P1 | P5 |

and wherein the groups P, and G are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



36. (Currently Amended) The method of claim 15, wherein the compound is

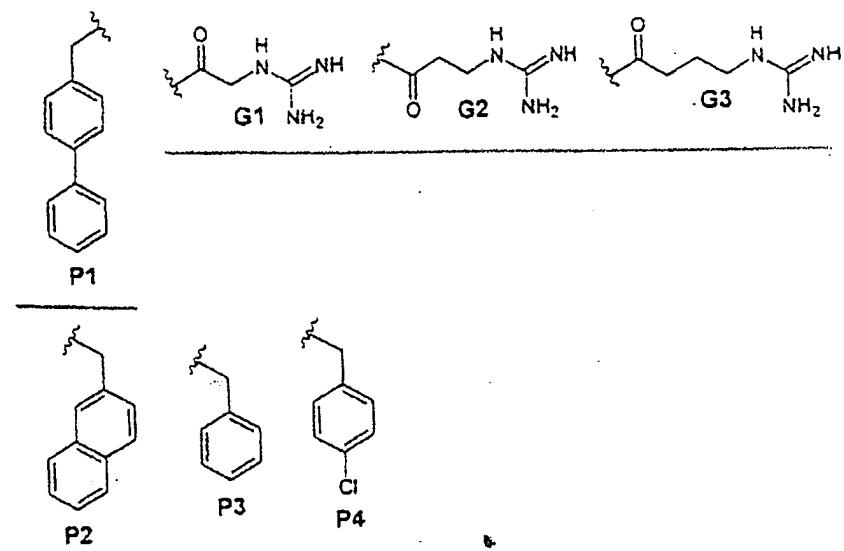


wherein R1, R2, R3 and R4 are selected from the group combinations of:

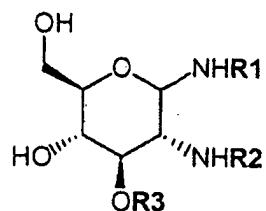
| R1 | R2 | R3 | R4 |
|----|----|----|----|
| P1 | G1 | P4 | P2 |
| P1 | G1 | P4 | P3 |
| P1 | G1 | P4 | P4 |
| P1 | G1 | P2 | P3 |
| P1 | G1 | P2 | P4 |
| P1 | G1 | P1 | P3 |
| P1 | G1 | P1 | P4 |
| P1 | G2 | P4 | P2 |
| P1 | G2 | P4 | P3 |
| P1 | G2 | P4 | P4 |
| P1 | G2 | P2 | P2 |

|    |    |    |    |
|----|----|----|----|
| P1 | G2 | P2 | P3 |
| P1 | G2 | P2 | P4 |
| P1 | G2 | P1 | P2 |
| P1 | G2 | P1 | P3 |
| P1 | G2 | P1 | P4 |
| P4 | G1 | P4 | P2 |
| P4 | G1 | P4 | P3 |
| P4 | G1 | P4 | P4 |
| P4 | G1 | P2 | P2 |
| P4 | G1 | P2 | P3 |
| P4 | G1 | P2 | P4 |
| P4 | G1 | P1 | P2 |
| P4 | G1 | P1 | P3 |
| P4 | G1 | P1 | P4 |
| P4 | G2 | P4 | P2 |
| P4 | G2 | P4 | P3 |
| P4 | G2 | P4 | P4 |
| P4 | G2 | P2 | P2 |
| P4 | G2 | P2 | P3 |
| P4 | G2 | P2 | P4 |
| P4 | G2 | P1 | P2 |
| P4 | G2 | P1 | P3 |
| P4 | G2 | P1 | P4 |
| P1 | G3 | P3 | P3 |

and wherein the groups P, and G are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



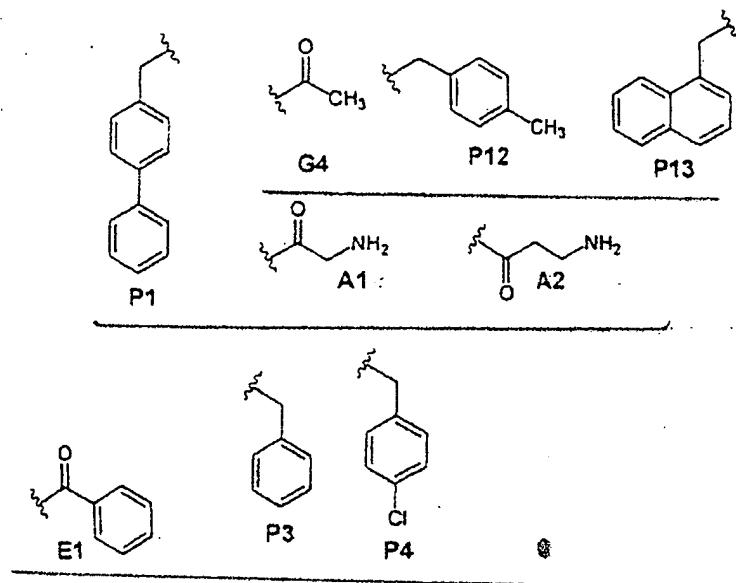
37. (Currently Amended) The method of claim 15, wherein the compound is



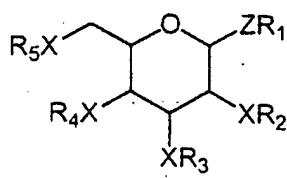
wherein R1, R2 and R3 are selected from the group combinations of:

| R1 | R2 | R3  |
|----|----|-----|
| A2 | G4 | P3  |
| A2 | G4 | P12 |
| A2 | G4 | P13 |
| A2 | G4 | P1  |
| A2 | E1 | P3  |
| A2 | E1 | P4  |
| A2 | E1 | P12 |
| A2 | E1 | P13 |
| A1 | E1 | P3  |
| A1 | E1 | P4  |

and wherein the groups P, A and E are defined as follows as described in "Substituents per Example Libraries 1-14" in the specification



38. (Currently Amended) A pharmaceutical formulation comprising a compound as claimed in claim 1 or a pharmaceutically acceptable salt thereof, together with one or more pharmaceutically acceptable carriers, diluents or excipients carrier diluent or excipient and a compound of general formula I, or a pharmaceutically acceptable salt thereof



General Formula I

wherein the ring may be of any configuration;

Z is selected from the group consisting of: sulphur, oxygen, and NR<sup>A</sup> wherein R<sup>A</sup> is selected from the set defined for R<sub>1</sub> to R<sub>5</sub> or C1 to C15 acyl, C4 to C15 arylacyl or C4 to C15 heteroarylacyl, with the proviso that both R<sub>1</sub> and R<sup>A</sup> are not hydrogen,

X is selected from the group consisting of: oxygen and NR<sup>A</sup> providing that: i) X of XR<sub>2</sub> is NR<sup>A</sup>, ii) X of XR<sub>3</sub> is oxygen and R<sub>3</sub> is not hydrogen, iii) X of R<sub>4</sub> is oxygen or NR<sup>A</sup>, and X of XR<sub>5</sub> is oxygen, wherein at least one of OR<sub>4</sub> and OR<sub>5</sub> is OH,

R<sub>1</sub> to R<sub>5</sub> are independently selected from the group consisting of: H, C1 to C12 alkyl, C1 to C12 alkenyl, C1 to C12 alkynyl, C1 to C12 heteroalkyl, C4 to C15 aryl, C4 to C15 heteroaryl, C4 to C15 arylalkyl and C4 to C15 heteroarylalkyl substituent ,

wherein, when X is NR<sup>A</sup>, both R<sup>A</sup> and the corresponding R<sub>2</sub> or R<sub>4</sub> is not hydrogen.

39. (New) The method according to claim 1 wherein XR<sub>2</sub> is NHR<sub>2</sub>.

40. (New) The method according to claim 1 wherein XR<sub>4</sub> is OH.

41. (New) The method according to claim 1 wherein XR<sub>3</sub> and XR<sub>5</sub> are OR<sub>3</sub> and OR<sub>5</sub>.

42. (New) The method according to claim 41 wherein XR<sub>2</sub> is NHR<sub>2</sub> and XR<sub>4</sub> is OH.